

WHAT IS CLAIMED IS

1. An optical disc apparatus using a decoder chip with no synchronization function of audio data and visual data comprising:
 - an optical pickup device for reading video data from on optical disc;
 - a separator for separating visual data and audio data from the video data;
 - a visual data decoder for decoding the separated visual data;
 - an audio data decoder for decoding the separated audio data;
 - a time information extractor independently for extracting time information of visual data from the visual data and for extracting time information of audio data from the audio data;
 - a lip sync judger for comparing the time information of the visual data with the time information of the audio data at a moment and judges whether reproduction of the audio data goes ahead of reproduction of the visual data by a period equal to or larger than a first predetermined period or not; and
 - a lip sync compensator for compensating lip sync between the audio data and the visual data by shortening reproducing period of a predetermined picture included in the decoded visual data which is reproduced at the moment when the reproduction of the audio data goes ahead of the reproduction of the visual data by the period equal to or larger than the first predetermined period.
2. The optical disc apparatus in accordance with claim 1, wherein

the predetermined picture is a picture included in each VOB (Video Object Unit) which is constituted by a combination of visual data of a plurality of pictures.

3. The optical disc apparatus in accordance with claim 2, wherein

the predetermined picture is a first picture or a last picture in each VOB.

4. The optical disc apparatus in accordance with claim 1, wherein

the lip sync judger further judges whether leading of the audio data with respect to the visual data is equal to or smaller than a second predetermined period or not; and

the lip sync compensator stops the compensation of the lip sync between the audio data and the visual data when the leading of the audio data with respect to the visual data is equal to or smaller than the second predetermined period.

5. The optical disc apparatus in accordance with claim 1, wherein

the first predetermined period is 100 ms.

6. The optical disc apparatus in accordance with claim 4, wherein

the second predetermined period is 30 ms.

7. The optical disc apparatus in accordance with claim 1, wherein

a normal reproducing period with no lip sync compensation is

about 30 ms and the lip sync compensator shortens the reproducing period of the predetermined picture included in the decoded visual data to be 20 ms.

8. The optical disc apparatus in accordance with claim 1, wherein

the audio data are decoded in compliance with MP3 standard and the visual data are decoded in compliance MPEG2 standard.

9. The optical disc apparatus in accordance with claim 1, wherein

when the visual data goes ahead of the audio data, or when audio data goes ahead of the visual data but leading of the audio data with respect to the visual data is equal to or smaller than a second predetermined period, the lip sync compensator does not compensate the lip sync between the audio data and the visual data.